

Assoc. Prof. Salih Barış Öztürk

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-4216-2019

ScopusID: 14830500900

Yoksis Researcher ID: 18229

Biography

Salih Baris Ozturk (S'02-M'08-SM'19) received the B.Sc. degree (with honors) in electrical engineering from Istanbul

Technical University, Istanbul, Turkey, in 2000. In 2002, he joined Advanced Electrical Machines and Power Electronics

(EMPE) Laboratory research group at Texas A&M University, College Station, Texas, USA, where he was a Graduate

Research and Teaching Assistant as well as a Lecturer in the Department of Electrical and Computer Engineering and

received the M.Sc. and Ph.D. degrees from Texas A&M University, College Station, in 2005 and 2008, respectively, all in

electrical engineering. He is (one of) the recipient(s) of the EPPEI Scholarship (Academic Excellence Scholarship) from

Texas A&M University in 2004.

In 2004, he was with the Whirlpool R&D Center, Benton Harbor, MI. In 2008, he joined the Power Electronics Group,

United Technologies Research Center (UTRC), East Hartford, CT, as a Senior Research Engineer. He was an Assistant

Professor in the Department of Electrical and Electronics Engineering, Istanbul Okan University, Istanbul, Turkey, and the

director of the Power Electronics and Energy Conversion (PEEC) Laboratory between Sept. 2009 and Jan. 2020. Since

2020, he has been an Associate Professor in the Department of Electrical Engineering, Istanbul Technical University,

Istanbul, Maslak, Turkey, serving as the Deputy Head of the Department of Electrical Engineering, and the director of the

Photovoltaic Power Systems Laboratory (PV Lab). He holds an international patent and a U.S. patent on Method for

Smooth Motor Startup. He also has a Turkish patent on Internal Resistance Measurement Method for Super Capacitors.

His current research interests include modeling, design, analysis, and digital control of advanced power electronics

converters. His research interests also include machine learning, deep learning, reinforcement learning for power

electronics and drives, MPPT control for photovoltaic and wind generator systems, design, condition monitoring and

diagnostics of electric machines, digital-signal-processor-based advanced control of ac drives in particular self-

commissioning, auto-tuning, reduced-switch and multilevel inverters, fault-tolerant control, model predictive control and

sensorless vector and direct torque control of induction, permanent-magnet synchronous, synchronous reluctance and

brushless dc machines, MIL, SIL, PIL, HIL, C-HIL and P-HIL simulations and rapid control prototyping for power

electronics and drives systems. He is the author of the chapter "Development of Field-Oriented Control Induction Motor

Using VisSim™ in the book DSP-Based Electromagnetic Motion Control (Boca Raton, FL: CRC Press, 2003).

Dr. Ozturk received the 2008 IEEE Industrial Electronics Society Second Best Paper Award from the Electric Machines

Technical Committee for his paper, "Sensorless Direct Torque and Indirect Flux Control of Brushless DC Motor with

Non-sinusoidal Back-EMF," presented at the 2008 IEEE Industrial Electronics Conference (IECON), Miami, FL. He is also

one of the recipients of the 2008 Outstanding Achievement Award (highest award) from the United Technologies

Research Center for his participation in achieving the successful demonstration of the World's First Fuel Cell Powered

Rotorcraft Flight.

Dr. Ozturk has also been serving on the editorial board of the Journal of Cognitive Systems and Elsevier's International

Journal of Engineering, Systems and Technology (JESTECH). He is also on the advisory board of the new journal Turkish

Journal of Electrical Power and Electrical Systems (TEPES).

Education Information

Doctorate, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, United States Of America 2006 - 2008

Postgraduate, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, United States Of America 2002 - 2005

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 1995 - 2000

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Measurement and Evaluation, ControlDesk Next Generation Basic and dSPACE SCALEXIO System, dSPACE, 2015

Dissertations

Doctorate, Direct Torque Control of Brushless DC Motor with Non-sinusoidal Back-EMF, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, 2008

Postgraduate, Modeling, Simulation, and Analysis of Low-Cost Direct Torque Control of PMSM Using Hall-Effect Sensors, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, 2005

Research Areas

Direct Energy Conversion and Energy Storage, Renewable energy, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters, Power Quality

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - 2020

Assistant Professor, Istanbul Okan University, Faculty Of Engineering, 2009 - 2020

Research Assistant, Texas A&M University, Bilgisayar Bilimleri ve Elektrik Mühendisliği, Elektrik Mühendisliği, 2002 - 2008

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues

Head of Department, Istanbul Okan University, Faculty Of Engineering, 2018 - 2020

Fakülte Kurulu Üyesi, Istanbul Okan University, Faculty Of Engineering, 2018 - 2020

Program Koordinatörü, Istanbul Okan University, Graduate School Of Natural And Applied Sciences, Power Electronics and Clean Energy Systems (PECES) M.Sc. Program, 2012 - 2020

Erasmus Coordinator, Istanbul Okan University, Faculty Of Engineering, 2010 - 2020

Program Koordinatörü, Istanbul Okan University, Graduate School Of Natural And Applied Sciences, Mechatronics Engineering Ph.D. Program, 2010 - 2020

Courses

Power Electronic Circuits, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Mechatronics Engineering O'COOP 1, 2, 3, 4, Undergraduate, 2018 - 2019

Microcontrollers, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

DSP-Based Electromechanical Motion Control, Postgraduate, 2018 - 2019, 2017 - 2018

Mechatronics Engineering Graduation Project, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Electrical-Electronics Engineering Graduation Project, Undergraduate, 2018 - 2019, 2017 - 2018

Electromechanical Energy Conversion, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Mechatronics Engineering Design, Undergraduate, 2019 - 2020

Fundamentals of Power Systems, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Electric Drives, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Advanced Electric Drives, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Graduation Project, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Graduation Project, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Power Electronics and Motion Control Systems, Undergraduate, 2016 - 2017

Principles of Energy Systems Engineering, Undergraduate, 2016 - 2017, 2014 - 2015

DSP-Based Electromechanical Motion Control, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Advanced Electric Drives, Doctorate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2011 - 2012

Engineering Design, Undergraduate, 2015 - 2016

Introduction to EE Engineering, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Graduation Project II, Undergraduate, 2012 - 2013

Computer Programming, Undergraduate, 2009 - 2010

Introduction to Matlab / SIMULINK, Undergraduate, 2010 - 2011

Advising Theses

Öztürk S. B., Model Predictive Control of Permanent Magnet Synchronous Motor in Electric Power Assisted Steering System, Postgraduate, A.MOHAMMAD(Student), 2020

Öztürk S. B., Kelleci B., Design and analysis of high power sepic converter, Postgraduate, İ.HALİL(Student), 2019

Öztürk S. B., Aktaş M., Investigation of performances of model predictive controlled induction motors, Postgraduate, G.BAHADIR(Student), 2018

Öztürk S. B., An encoder fault tolerant FGPA based robot control using bluetooth of a smart phone, Postgraduate, M.AMEEN(Student), 2017

Öztürk S. B., A simple least squares approach for low speed performance analysis of indirect foc induction motor drive using low-resolution position sensor, Postgraduate, S.REHMAN(Student), 2017

Öztürk S. B., Sensorless permanent magnet synchronous machine control based on stator feedforward voltage estimation, Doctorate, Ö.CİHAN(Student), 2016

Jury Memberships

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, October, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2019

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2018

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, February, 2018

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, February, 2018

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2017

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2017

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, January, 2017

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, January, 2017

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, December, 2015

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, September, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, August, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, July, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, June, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, January, 2015

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, July, 2014

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

I. Analysis of PV power plant performance considering combination of different MPPT algorithms, shading patterns and connection types

Oguz C. B., Avcı E., Öztürk S. B.

Engineering Science and Technology, an International Journal, vol.48, 2023 (SCI-Expanded)

II. Design and Implementation of a Paralleled Discrete SiC MOSFET Half-Bridge Circuit with an Improved Symmetric Layout and Unique Laminated Busbar

Ataseven I., Sahin I., Öztürk S. B.

Energies, vol.16, no.6, 2023 (SCI-Expanded)

III. Residential energy management system based on integration of fuzzy logic and simulated annealing

Kivanc O. C., AKGÜN B. T., Bilgen S., Öztürk S. B., Baysan S., TUNCAY R. N.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.4, pp.1539-1558, 2022 (SCI-Expanded)

IV. On-line dead time compensator for PMSM drive based on current observer

Kivanc O. C., Öztürk S. B., Toliyat H. A.

Engineering Science and Technology, an International Journal, vol.25, 2022 (SCI-Expanded)

V. SEPIC Converter with an LC Regenerative Snubber for EV Applications

Kasasbeh A., KELLECİ B., Öztürk S. B., Aksoz A., Hegazy O.

ENERGIES, vol.13, no.21, 2020 (SCI-Expanded)

VI. A Review of Modular Multilevel Converters for Stationary Applications

Wang Y., Aksoz A., Geury T., Öztürk S. B., Kivanc O. C., Hegazy O.

APPLIED SCIENCES-BASEL, vol.10, no.21, 2020 (SCI-Expanded)

VII. Rotor Position Alignment of FSTPI Based PMSM Drive Using Low Frequency Signal Injection

Öztürk S. B., Kivanc O. C., Aksoz A., Hegazy O.

APPLIED SCIENCES-BASEL, vol.10, no.21, 2020 (SCI-Expanded)

VIII. Excitation procedure for brushless wound-rotor synchronous starter generator with seamless transitions

Deriszadeh A., Karabasoglu O., Ozturk S. B.

IET POWER ELECTRONICS, vol.12, no.11, pp.2873-2883, 2019 (SCI-Expanded)

IX. Low-Cost Position Sensorless Speed Control of PMSM Drive Using Four-Switch Inverter

Kivanc O. C., Ozturk S. B.

ENERGIES, vol.12, no.4, 2019 (SCI-Expanded)

X. Sensorless PMSM Drive Based on Stator Feedforward Voltage Estimation Improved With MRAS Multiparameter Estimation

Kivanc O. C., Ozturk S. B.

- IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.23, no.3, pp.1326-1337, 2018 (SCI-Expanded)
- XI. **Sector determination for SVPWM based four-switch three-phase VSI**
Kivanc O. C., Ozturk S. B.
ELECTRONICS LETTERS, vol.53, no.5, pp.343-344, 2017 (SCI-Expanded)
- XII. **Direct Torque and Indirect Flux Control of Brushless DC Motor**
Ozturk S. B., Toliyat H. A.
IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.16, no.2, pp.351-360, 2011 (SCI-Expanded)
- XIII. **Direct Torque Control of Four-Switch Brushless DC Motor With Non-Sinusoidal Back EMF**
Ozturk S. B., Alexander W. C., Toliyat H. A.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.25, no.2, pp.263-271, 2010 (SCI-Expanded)
- XIV. **DSP-Based Sensorless Electric Motor Fault Diagnosis Tools for Electric and Hybrid Electric Vehicle Powertrain Applications**
Akin B., Ozturk S. B., Toliyat H. A., Rayner M.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.58, no.5, pp.2150-2159, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sensorless control of permanent magnet synchronous generator drive using reduced switch inverter**
KIVANÇ Ö. C., ÖZTÜRK S. B.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.25, no.2, pp.132-142, 2019 (ESCI)
- II. **Stator Feedforward Voltage Estimation Based Sensorless Permanent Magnet Synchronous Generator Drive Using Multi-Parameter Estimation Based on MRAS**
KIVANÇ Ö. C., ÖZTÜRK S. B.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK-MİMARLIK FAKÜLTESİ DERGİSİ, vol.32, no.3, pp.227-242, 2017 (Peer-Reviewed Journal)
- III. **Parametrical Method of Low-Frequency Harmonics Suppression in Rectifier's Output Voltage Under Supply Voltage Unbalances (Mathematical Model, Study and Industrial Application)**
ALİZADE P. G., TUNCAY R. N., ÖZTÜRK S. B., KIVANÇ Ö. C., MAMEDOV H. A., ABDULLAEV S. A.
MATHEMATICAL AND COMPUTER MODELLING SERIES: TECHNICAL SCIENCES, vol.13, pp.5-16, 2016 (Peer-Reviewed Journal)
- IV. **MATLAB Function Based Approach to FOC of PMSM Drive**
KIVANÇ Ö. C., ÖZTÜRK S. B.
INTERNATIONAL JOURNAL OF SIMULATION SYSTEMS, SCIENCE AND TECHNOLOGY (IJSSST), vol.17, no.33, pp.1-8, 2016 (Scopus)

Books & Book Chapters

- I. **Development of Field-Oriented Control Induction Motor Using VisSim**
ÖZTÜRK S. B.
in: DSP-Based Electromechanical Motion Control, Hamid A. Toliyat, Steven G. Campbell, Editor, CRC Press, Boca Raton, pp.327-342, 2003

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Variable Switching Frequency on Motor Life and Power Electronic Components in Battery Powered Locomotives**
Eren E., ÖZTÜRK S. B., KAYA H.
The 9th International Congress of Mining, Machinery and Technologies (IMMAT23), Izmir, Turkey, 13 - 15

- September 2023
- II. **Designing a Smart Home Energy Management System to Improve Cost/Comfort Factor**
 KIVANÇ Ö. C., AKGÜN B. T., BİLGEN S., ÖZTÜRK S. B., BAYSAN S., TUNCAY R. N.
 12th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2020
- III. **Design and Technical Assessment of Local Electrical Storage Systems in Double-Fed Generators for Wind Turbine Power System Applications**
 Aksöz A., Benomar Y., Geury T., El Baghdadi M., Hegazy O., Öztürk S. B., Colak I.
 16th International Conference on Ecological Vehicles and Renewable Energies (EVER), ELECTR NETWORK, 5 - 07 May 2021
- IV. **Design of a Controller for Torsional Vibrations of an Electric Vehicle Powertrain**
 KARAMUK M., ÖZTÜRK S. B.
 2019 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) 2019 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkey, Turkey, 27 - 29 August 2019
- V. **Design and Analysis of 240 Watt SEPIC Converter for LED Applications**
 HAYIRLI İ. H., KELLECİ B., KIVANÇ Ö. C., ÖZTÜRK S. B., TUNCAY R. N., ÇITÇİ O.
 2019 IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2019), Vancouver, Canada, 12 - 14 June 2019, pp.804-809
- VI. **An Encoder Fault Tolerant FPGA Based Robot Control Using Bluetooth of a Smart Phone**
 MAJEEED A., ÖZTÜRK S. B., TÜRELİ D. K.
 2017 IEEE 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO 2017), Bursa, Turkey, 30 November - 02 December 2017, pp.1336-1341
- VII. **A Simple Least Squares Approach for Low Speed Performance Analysis of Indirect FOC Induction Motor Drive Using Low-resolution Position Sensor**
 ÖZTÜRK S. B., KIVANÇ Ö. C., ATILA B., REHMAN S. U., AKIN B., TOLİYAT H. A.
 2017 IEEE INTERNATIONAL ELECTRIC MACHINES AND DRIVES CONFERENCE (IEMDC 2017), Miami, United States Of America, 21 - 24 May 2017
- VIII. **Electro-hydraulic Power Steering System Modelling for Parameter Fault Detection Based on Model Reference Adaptive Frame**
 KIVANÇ Ö. C., ÖZTÜRK S. B., TUNCAY R. N., KESİCİ E., YAZICI C.
 2016 42ND ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2016), Florence, Italy, United States Of America, 23 - 26 October 2016
- IX. **MATLAB Function Based Approach to FOC of PMSM Drive**
 KIVANÇ Ö. C., ÖZTÜRK S. B.
 2015 IEEE EUROPEAN MODELLING SYMPOSIUM (EMS 2015), Madrid, Spain, 6 - 08 October 2015
- X. **Exciting System Selection for Brushless Synchronous Machine**
 ÜSTÜN Ö., ÖZTÜRK S. B., KIVANÇ Ö. C., ALİZADE P. G., TUNCAY R. N.
 2012 8TH MEDITERRANEAN CONFERENCE ON POWER GENERATION, TRANSMISSION, DISTRIBUTION AND ENERGY CONVERSION (MEDPOWER 2012), Cagliari, Italy, 1 - 03 October 2012
- XI. **Quasi-Smart Construction Synchronous Machine Working with Extensive Cycling Load**
 ALİZADE P. G., TUNCAY R. N., ÖZTÜRK S. B., KIVANÇ Ö. C.
 2012 INTERNATIONAL CONFERENCE ON APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS IN ECONOMY AND EDUCATION (ICAICTSEE 2012), Sofija, Bulgaria, 5 - 06 October 2012, pp.93-101
- XII. **A Study on Autonomous Vehicle Development Process at Okan University**
 AKGÜN B. T., KOÇ Z., GÜNER KOÇ Ş., ÖZTÜRK S. B., ÖZKAN B., ÜSTÜN Ö., TUNCAY R. N., ÖZGÜNER Ü.
 2012 IEEE INTERNATIONAL CONFERENCE ON VEHICULAR ELECTRONICS AND SAFETY (ICVES 2012), İstanbul, Turkey, 24 - 27 July 2012, pp.369-374
- XIII. **Sensorless Direct Torque and Indirect Flux Control of Brushless DC Motor with Non-sinusoidal Back-EMF**

- ÖZTÜRK S. B., TOLIYAT H. A.
 2008 34TH ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2008), Orlando, FL, United States Of America, 10 - 13 November 2008, pp.1373-1378
- XIV. **Direct Torque Control of Four-switch Brushless DC Motor with Non-sinusoidal Back-EMF**
 ÖZTÜRK S. B., ALEXANDER W. C., TOLIYAT H. A.
 2008 IEEE POWER ELECTRONICS SPECIALISTS CONFERENCE (PESC 2008), Rhodes, Greece, Greece, 15 - 19 June 2008, pp.4730-4736
- XV. **A PWM Strategy with Reduced Bearing Currents for Five-Phase Motors**
 FREITAS I. S., TOLIYAT H. A., JACOBINA C. B., ÖZTÜRK S. B.
 2007 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC 2007), Arlington, TX, United States Of America, 9 - 12 September 2007, pp.354-358
- XVI. **On-board Fault Diagnosis of HEV Induction Motor Drive at Start-up and During Idle Mode**
 AKIN B., ÖZTÜRK S. B., TOLIYAT H. A.
 2007 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC 2007), Arlington, TX, United States Of America, 9 - 12 September 2007, pp.140-147
- XVII. **Power Factor Correction of Direct Torque Controlled Brushless DC Motor Drive**
 ÖZTÜRK S. B., YANG O., TOLIYAT H. A.
 2007 IEEE INDUSTRY APPLICATIONS ANNUAL MEETING (IAS 2007), New Orleans, LA, United States Of America, 23 - 27 September 2007, pp.297-304
- XVIII. **Direct Torque Control of Brushless DC Motor with Non-sinusoidal Back-EMF**
 ÖZTÜRK S. B., TOLIYAT H. A.
 2007 IEEE INTERNATIONAL ELECTRIC MACHINES AND DRIVES CONFERENCE (IEMDC 2007), Antalya, Turkey, 3 - 05 May 2007, pp.165-171
- XIX. **Low Speed Performance Operation of Induction Motors Drives Using Low-Resolution Speed Sensor**
 AKIN B., ÖZTÜRK S. B., NIAZI P., TOLIYAT H. A., GOODARZI A.
 2006 IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2006), Montreal, Canada, 9 - 13 July 2006, pp.2110-2115
- XX. **Low-Cost Direct Torque Control of Permanent Magnet Synchronous Motor Using Hall-Effect Sensors**
 ÖZTÜRK S. B., AKIN B., TOLIYAT H. A., ASHRAFZADEH F.
 2006 IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC 2006), Dallas, TX, United States Of America, 19 - 23 March 2006, pp.667-673

Supported Projects

Şentürk Lüle S., Akalın Ö., Öztürk S. B., TUBITAK Project, Çevreye Uyumlu Süreyyülebilir İleri Araç Teknolojileri, 2023 - 2027

Öztürk S. B., Kivanç Ö. C., TUBITAK Project, Otonom Araçlar İçin Akıllı Direksiyon Tahrik Sistemi Geliştirilmesi (TÜBİTAK 1005 - 121E613), 2022 - 2023

Öztürk S. B., Tuncay R. N., TUBITAK Project, AKILLI YENİLENEBİLİR ENERJİ YÖNETİM SİSTEMİ, 2018 - 2020

Öztürk S. B., Kelleci B., TUBITAK Project, Yüksek Verimli, İki Farklı Güçte çıkış Gerilimi Değiştirilebilen SEPIC LED Sürücü Tasarımı ve Gerçekleştirilmesi (TÜBİTAK 1505 - 5170021), 2018 - 2020

Öztürk S. B., Alankuş O. B., TUBITAK Project, İleri Seviyede Otonom Otobüs Sistemi Geliştirilmesi (TÜBİTAK 1505 - 5170067), 2018 - 2020

Öztürk S. B., Tuncay R. N., TUBITAK Project, Dinamik ve Modüler Akıllı Batarya Yönetim Sistemi (TÜBİTAK 1003 - Öncelikli Alanlar - 115E100), 2015 - 2017

Öztürk S. B., Çabri A., TUBITAK Project, Solar Sulama Sistemleri İçin, Aynı Zamanda İnvörör Özelliğine Sahip Su Pompası Sürücüsü Geliştirilmesi (TÜBİTAK 1507 - 7150583), 2015 - 2017

Öztürk S. B., TUBITAK Project, Küçük Kareler Yaklaşımı ile Düşük Çözünürlükteki Pozisyon Sensörlü Alternatif Akım Makinalarında Çok Düşük Hız Performansının İyileştirilmesi (TÜBİTAK 1002 - Hızlı Destek - 115E173), 2015 - 2016

Öztürk S. B., Alankuş O. B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yenilikçi Akıllı ve Haberleşen Araç

Teknolojileri Geliştirme ve Kümelenme Merkezi (TR10/15/YNK/0022), 2015 - 2016

Öztürk S. B., Kesici E., TUBITAK Project, Elektronik Motor Destekli Elektro-Hidrolik Direksiyon Sisteminin Geliştirilmesi (TÜBİTAK 1511 - 112038), 2013 - 2016

Öztürk S. B., TUBITAK Project, Geniş Hız Yelpazesinde Çalışan, Doğrudan Tahrikli, Pozisyon Sensörsüz Küçük Güçlü Bir Sürekli Mıknatıslı Senkron Generatör Sisteminin Kontrolü ve Gerçeklenmesi (TÜBİTAK 3501 - 112E263), 2013 - 2016

Öztürk S. B., Alankuş O. B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yenilikçi ve Sürdürülebilir Elektrikli ve Hibrid Araç Teknolojileri Geliştirme ve Kümelenme Merkezi (TR10/14/YEN/0088), 2014 - 2015

Öztürk S. B., Üstün Ö., Project Supported by Other Official Institutions, Elektrikli Araçlar İçin Geri Kazanımlı Frenleme Sistemi Yazılımı Geliştirme Projesi (EPT-RBS), 2013 - 2014

Öztürk S. B., - -, TUBITAK Project, ELEKTRİKLİ ARAÇLAR İÇİN YÜKSEK VERİMLİ VE YERLİ TASARIM TAHİRİK SİSTEMİ GELİŞTİRME PROJESİ, 2012 - 2014

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Öztürk S. B., Blasko V., Other International Funding Programs, SIKORSKY Geleceğin Elektrikli Helikopter Çalışması, 2008 - 2008

Öztürk S. B., Blasko V., Other International Funding Programs, United Technologies Araştırma ve Geliştirme Merkezi Güç Elektroniği Sistemleri Birimi: Sürekli Mıknatıslı Senkron Motorun Sensörsüz Kontrolü, 2008 - 2008

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Toliyat H. A., Other International Funding Programs, Anahtarlamalı Reliktans Motoru İçin Elektronik Kutup Değiştirme, 2007 - 2007

Öztürk S. B., Toliyat H. A., Other International Funding Programs, Aksiyel Aki Yönlü Sürekli Mıknatıslı Senkron Motor Tasarımı, 2007 - 2007

Toliyat H. A., Other International Funding Programs, Zıt EMK'sı Sinüs Olmayan Fırçasız Doğru Akım Motoru İçin Pozisyon Sensörsüz Direkt Tork ve İndirekt Aki Kontrolü, 2006 - 2006

Patent

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Öztürk S. B., Çok kanatlı yelken tipi dairesel bir rüzgar türbini, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: , Standard Registration, 2013

Activities in Scientific Journals

Turkish Journal of Electrical Power and Electrical Systems, Advisory Committee Member, 2022 - Continues
Journal of Cognitive Systems, Advisory Committee Member, 2020 - Continues
International Journal of Engineering, Systems and Technology, Assistant Editor/Section Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

IEEE (International Electrical and Electronic Engineering), Principal Member, 2002 - Continues

Scientific Refereeing

IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, January 2010

Tasks In Event Organizations

Öztürk S. B., Workshop on Electric and Hybrid Electric Vehicle Technologies Cluster (3rd Workshop), Workshop Organization, Turkey, Haziran 2015
Öztürk S. B., Workshop on Electric and Hybrid Electric Vehicle Technologies Cluster (2nd Workshop), Workshop Organization, İstanbul, Turkey, Mart 2015

Scientific Research / Working Group Memberships

Ulaştırma Teknolojileri Ve Akıllı Otomotiv Sistemleri Uygulama Ve Araştırma Merkezi, İstanbul Okan University, Turkey,
<https://www.okan.edu.tr/arastirma/sayfa/ulastirma-teknolojileri-ve-akilli-otomotiv-sistemleri-uyg-ve-arst-merkezi/>,
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Metrics

Publication: 42
Citation (WoS): 268
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H-Index (WoS): 6
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Scholarships

Academic Excellence Scholarship, University, 2004 - 2004

Awards

Öztürk S. B., IEEE Senior Member, Institute Of Electrical And Electronics Engineers (Ieee), February 2019
Öztürk S. B., UTRC Outstanding Achievement Award, United Technologies Research Center (Utrc), September 2009
Öztürk S. B., Toliyat H. A., IEEE-IECON 2008 Best Paper Award - Second Prize, Ieee-Iecon 2008, September 2008
Öztürk S. B., İTÜ Elektrik Müh. Bölüm İkinciliği, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, June 2000

Non Academic Experience

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